EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	19	(halftoning and (watermark key hash signature)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/24 14:29
S1	4293	halftoning	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 12:39
S2	57	halftoning same watermark	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 15:43
S3	283	error adj diffusion adj halftoning	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/24 11:33
S4	5	error adj diffusion adj halftoning same watermark	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 12:51
S5	1	("6694041").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/23 12:52
S6	1	("6449377").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/23 12:54
S7	55	watermark with (transmit transmit$4 communicat$3) with (telephone phone fax facsimile)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/24 11:39
S8	14	halftoning same (hash signature)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 15:45
S9	0	("6804373").URPN.	USPAT	OR	ON	2007/05/23 14:01

EAST Search History

S10	11	("4405829" | "5111310" | "5438634" | "5488664" | "5734752" | "5917951" | "6025930" | "6064764" | "6088123" | "6381371" | "6522766").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/23 14:02
S11	97	("20010047476" | "4637051" | "4777357" | "4822986" | "4901073" | "4924078" | "5060980" | "5075862" | "5091966" | "5120940" | "5153928" | "5195123" | "5315098" | "5337361" | "5339170" | "5459307" | "5486686" | "5490217" | "5513563" | "5523552" | "5527407" | "5541396" | "5544255" | "5550365" | "5591956" | "5644408" | "5644655" | "5647017" | "5661284" | "5682030" | "5706099" | "5710636" | "5710814" | "5765176" | "5767496" | "5778076" | "5790703" | "5799112" | "5801944" | "5818955" | "5818970" | "5819240" | "5828772" | "5835615" | "5838814" | "5866895" | "5871288" | "5880451" | "5897669" | "5898166" | "5912745" | "5946414" | "5946415" | "5953426" | "5974147" | "5974200" | "5982506" | "5982896" | "5996893" | "6032861" | "6064738" | "6064751" | "6064764" | "6091835" | "6116510" | "6141441" | "6141450" | "6151590" | "6172773" | "6175827" | "6193158" | "6201901" | "6212281" | "6212504" | "6240196" | "6240212" | "6252675" | "6256398" | "6263086" | "6307955" | "6311214" | "6345104" | "6364209" | "6373587" | "6398117" | "6427021" | "6430302" | "6457651" | "6470096" | "6493110" | "6510997" | "6526155" | "6601172" | "6611598" | "6611623" | "6748533" | "6938017").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/23 14:10
S12	2	halftoning same (verification authentication) adj (index key)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 15:02

S13	56	halftoning and (hash signature).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 15:03
S14	0	("6775394").URPN.	USPAT	OR	ON	2007/05/23 15:14
S15	16	("3564130" | "3564131" | "5073925" | "5499294" | "5710636" | "5734752" | "5765176" | "5790703" | "5862260" | "5905800" | "5905819" | "5915027" | "6252971" | "6263086" | "6285775" | "6456393").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/23 15:19
S16	1	("6188766").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/23 22:13
S17	5	("5377017" | "5515176" | "5671285" | "5715070" | "5923763").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/23 15:20
S18	26	("6188766").URPN.	USPAT	OR	ON	2007/05/23 15:26
S19	1	("7152047").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/23 15:26
S20	178	halfton$3 same watermark	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 15:44
S21	75	halfton$3 same (hash signature) not S8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 15:49
S22	79	halfton$3 same glyph	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 15:50
S23	712	authenticat$3 with display with (key watermark signature)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 22:13

EAST Search History

S24	314	authenticat$3 with display near5 (key watermark signature)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 22:14
S25	5	halfton$3 and authenticat$3 with display near5 (key watermark signature)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 22:19
S26	0	authenticat$3 with display near5 (key watermark signature) same inspect	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 22:19
S27	18	authenticat$3 with display near5 (key watermark signature) same visual$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 22:19
S28	17	watermark with (transmit transmit$4 communicat$3) with (fax facsimile)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 23:37
S29	1	("6188766").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/23 23:32
S30	26	("6188766").URPN.	USPAT	OR	ON	2007/05/23 23:32
S31	146	signature with (transmit transmit$4 communicat$3) with (fax facsimile)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 23:48
S32	197	(713/179).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/05/23 23:49
S33	9	("4309569" | "5311591" | "5373561" | "5432852" | "5465299" | "5712914" | "5903651" | "5995623" | "6161183").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/23 23:51
S34	1	("5652794").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/24 11:33
S35	8	("5652794").URPN.	USPAT	OR	ON	2007/05/24 11:33

S36	8	("5157726" | "5159630" | "5208858" | "5245655" | "5337361" | "5388158" | "5422954" | "5530755").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/24 11:37
S37	740	(signature hash) with (send$3 transmit$4 communicat$3) with (telephone phone fax facsimile)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/24 11:40
S38	189	(verify verification authenticat$3) same (signature hash) with (send$3 transmit$4 communicat$3) with (telephone phone fax facsimile)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/24 11:40
S39	2	"6804373"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/24 13:26
S40	1	("6507656").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/24 14:28

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1 **Authentication and signature schemes: Print signatures for document authentication**   ▤
◆ Baoshi Zhu, Jiankang Wu, Mohan S. Kankanhalli
October 2003 **Proceedings of the 10th ACM conference on Computer and communications security CCS '03**
Publisher: ACM Press

Full text available: 📄 pdf(646.81 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present a novel solution for authenticating printed paper documents by utilizing the inherent non--repeatable randomness existing in the printing process. For a document printed by a laser-printer, we extract the unique features of the non--repeatable print content for each copy. The shape profiles of this content are used as the feature to represent the uniqueness of that particular printed copy. These features along with some important document content is then captured as the *print signa* ...

Keywords: authenticity, laser printer, originality, print signature

2 **Protecting digital media content**   ■
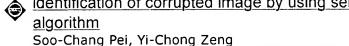◆ Nasir Memon, Ping Wah Wong
July 1998 **Communications of the ACM**, Volume 41 Issue 7
Publisher: ACM Press

Full text available: 📄 pdf(1.02 MB)   Additional Information: full citation, references, citings, index terms, review

3 **Digital rights management and watermarking: Tamper proofing and attack**   ▢
◆ **identification of corrupted image by using semi-fragile multiple-watermarking algorithm**
Soo-Chang Pei, Yi-Chong Zeng
March 2006 **Proceedings of the 2006 ACM Symposium on Information, computer and communications security ASIACCS '06**
Publisher: ACM Press

Full text available: 📄 pdf(622.66 KB)   Additional Information: full citation, abstract, references, index terms

We propose a novel semi-fragile multiple-watermarking algorithm based on quantization index modulation. This algorithm utilizes two quantization steps to yield the non-uniform intervals in the real-number axis. Each interval corresponds to one binary symbol,

includes stable-zero (S0), unstable-zero (U0), stable-one (S1), and unstable-one (U1). In addition, visual cryptography is integrated with the watermarking algorithm to increase the watermark capac ...

Keywords: attack identification, multiple-watermark, semi-fragile watermarking, tamper proofing, visual cryptography

4 Content-adaptive digital music watermarking based on music structure analysis

Changsheng Xu, Namunu C. Maddage, Xi Shao, Qi Tian
February 2007 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 3 Issue 1
Publisher: ACM Press
Full text available: pdf(583.99 KB)   Additional Information: full citation, abstract, references, index terms

A novel content-adaptive music watermarking technique is proposed in this article. To optimally balance inaudibility and robustness when embedding and extracting watermarks, the embedding scheme is highly related to the music structure and human auditory system (HAS). A note-based segmentation method is proposed and used for music vocal/instrumental boundary detection. A multiple bit hopping and hiding scheme with different embedding parameters is applied to vocal and instrumental frames of the ...

Keywords: Content-adaptive, digital watermarking, inaudibility, music structure, note-based segmentation, robustness

5 Digital watermarking

Minerva M. Yeung
July 1998 **Communications of the ACM**, Volume 41 Issue 7
Publisher: ACM Press
Full text available: pdf(172.73 KB)   Additional Information: full citation, citings, index terms

6 Letters to the editor: A protection model and its implementation in a dataflow system

Lubomir Bic
September 1982 **Communications of the ACM**, Volume 25 Issue 9
Publisher: ACM Press
Full text available: pdf(843.40 KB)   Additional Information: full citation, abstract, references, index terms

A protection model is presented for a general purpose computing system based on tags attached as seals and signatures to values exchanged among processes. A tag attached to a value as a seal does not prevent that value from being propagated to any place within the system; rather, it guarantees that the value and any information derived from it cannot leave the system unless a matching tag is presented. A tag attached to a value as a signature is used by a p ...

Keywords: dataflow, interprocess communication, proprietory services, protection, selective confinement

7 Attack detection: Visualization of wormholes in sensor networks

Weichao Wang, Bharat Bhargava
October 2004 **Proceedings of the 2004 ACM workshop on Wireless security WiSe '04**

Publisher: ACM Press

Full text available: 📄 pdf(919.82 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Several protocols have been proposed to defend against wormholes in ad hoc networks by adopting positioning devices, synchronized clocks, or directional antennas. In this paper, we propose a mechanism, MDS-VOW, to detect wormholes in a sensor network. MDS-VOW first reconstructs the layout of the sensors using multi-dimensional scaling. To compensate the distortions caused by distance measurement errors, a surface smoothing scheme is adopted. MDS-VOW then detects the wormhole by visualizing the a ...

Keywords: multi-dimensional scaling, sensor networks, visualization, wormhole attacks

8 <u>Reproducing color images with embedded metallic patterns</u>

Roger D. Hersch, Fabien Collaud, Patrick Emmel

July 2003 **ACM Transactions on Graphics (TOG) , ACM SIGGRAPH 2003 Papers SIGGRAPH '03**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: 📄 pdf(380.10 KB)
            🎬 mov(23:17 MIN)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

By combining a metallic ink and standard inks, one may create printed images having a dynamic appearance: an image viewed under specular reflection may be considerably different from the same image viewed under non-specular reflection. Patterns which are either dark or hidden become highlighted under specular reflection, yielding interesting visual effects. To create such images, one needs to be able to reproduce at non-specular reflection angles the same colors, by standard inks alone or in com ...

Keywords: color prediction model, color reproduction, dot gain, ink spreading, metallic ink printing, trapping

9 <u>Selected writings on computing: a personal perspective</u>

Edsger W. Dijkstra

January 1982 Book

Publisher: Springer-Verlag New York, Inc.

Full text available: 📄 pdf(60.98 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day, where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and the written word in general became more and more important. The circumstance that my employe ...

10 <u>Object-oriented units of measurement</u>

Eric Allen, David Chase, Victor Luchangco, Jan-Willem Maessen, Guy L. Steele

October 2004 **ACM SIGPLAN Notices , Proceedings of the 19th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '04**, Volume 39 Issue 10

Publisher: ACM Press

Full text available: 📄 pdf(296.87 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Programs that manipulate physical quantities typically represent these quantities as raw numbers corresponding to the quantities' measurements in particular units (e.g., a length

represented as a number of meters). This approach eliminates the possibility of catching errors resulting from adding or comparing quantities expressed in different units (as in the Mars Climate Orbiter error [11]), and does not support the safe comparison and addition of quantities of the same dimension. We show how ...

11 Image-based editing and image-based animation: Isoluminant color picking for non-photorealistic rendering

Trân-Quân Luong, Ankush Seth, Allison Klein, Jason Lawrence
May 2005 **Proceedings of the 2005 conference on Graphics interface GI '05**
Publisher: Canadian Human-Computer Communications Society
Full text available: pdf(954.45 KB)   Additional Information: full citation, abstract, references

The physiology of human visual perception helps explain different uses for color and luminance in visual arts. When visual fields are isoluminant, they look the same to our luminance processing pathway, while potentially looking quite different to the color processing path. This creates a perceptual tension exploited by skilled artists. In this paper, we show how reproducing a target color using a set of isoluminant yet distinct colors can both improve existing NPR image filters and help create ...

Keywords: artistic dithering, color halftoning, nonphotorealistic rendering

12 Steganography II: Adaptive steganography based on dithering

Elke Franz, Antje Schneidewind
September 2004 **Proceedings of the 2004 workshop on Multimedia and security MM&Sec '04**
Publisher: ACM Press
Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references, index terms

This paper investigates possibilities to develop adaptive steganographic algorithms in general and especially for images as possible cover data. We exploit *dithering* as a means to gain image information that can be used by adaptive steganographic algorithms. First, we point out general possibilities for using this process for steganography and discuss advantages and drawbacks. Since the original dither criteria is not sufficient for steganography, we modify it and develop further algorith ...

Keywords: adaptivity, image processing, steganography

13 Special issue on spatial database systems: Management of multidimensional discrete data

Peter Baumann
October 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(2.30 MB)   Additional Information: full citation, abstract, references, citings

Spatial database management involves two main categories of data: vector and raster data. The former has received a lot of in-depth investigation; the latter still lacks a sound framework. Current DBMSs either regard raster data as pure byte sequences where the DBMS has no knowledge about the underlying semantics, or they do not complement array structures with storage mechanisms suitable for huge arrays, or they are designed as specialized systems with sophisticated imaging functionality, but n ...

Keywords: Multimedia database systems, image database systems, spatial index, tiling

14 Alternate rendering pipeline: Video mosaics

Allison W. Klein, Tyler Grant, Adam Finkelstein, Michael F. Cohen
June 2002 **Proceedings of the 2nd international symposium on Non-photorealistic animation and rendering NPAR '02**

Publisher: ACM Press

Full text available: 📄 pdf(1.73 MB)   Additional Information: full citation, abstract, references, citings, index terms

> We present a method for creating a *video mosaic,* a two-dimensional arrangement of small *source* videos (tiles) that suggests a larger, unified *target* video. We develop a distance measure to assess the match between source and target based on average color and also three-dimensional wavelet decomposition signatures in the YIQ color space. We also introduce a dynamic programming algorithm that automatically chooses the smaller tiling sub-sequences from a large collection of can ...

Keywords: animation, non-photorealistic rendering, temporal aliasing, video

15 Algorithms for computing the volume and other integral properties of solids. II. A family of algorithms based on representation conversion and cellular approximation

Yong Tsui Lee, Aristides A. G. Requicha
September 1982 **Communications of the ACM**, Volume 25 Issue 9

Publisher: ACM Press

Full text available: 📄 pdf(902.59 KB)   Additional Information: full citation, abstract, references, citings, index terms

> This paper discusses a family of algorithms for computing the volume, moments of inertia, and other integral properties of geometrically complex solids, e.g. typical mechanical parts. The algorithms produce approximate decompositions of solids into cuboid cells whose integral properties are easy to compute. The paper focuses on versions of the algorithms which operate on solids represented by Constructive Solid Geometry (CSG), i.e., as set-theoretical combinations of primitive so ...

Keywords: CAD/CAM, Monte Carlo methods, cellular decompositions, constructive solid geometry, constructive solid, geometric modeling, mass properties, moments of inertia, numerical integration, octrees, programmable automation, ray casting, recursive, representation conversion, set membership classification, subdivision

16 Adapting to network and client variability via on-demand dynamic distillation

Armando Fox, Steven D. Gribble, Eric A. Brewer, Elan Amir
October 1996 **ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , Proceedings of the seventh international conference on Architectural support for programming languages and operating systems ASPLOS-VII**, Volume 30 , 31 Issue 5 , 9

Publisher: ACM Press

Full text available: 📄 pdf(1.64 MB)   Additional Information: full citation, abstract, references, citings, index terms

> The explosive growth of the Internet and the proliferation of smart cellular phones and handheld wireless devices is widening an already large gap between Internet clients. Clients vary in their hardware resources, software sophistication, and quality of connectivity, yet server support for client variation ranges from relatively poor to none at all. In this paper we introduce some design principles that we believe are fundamental to providing "meaningful" Internet access for the entire range of ...

17 Moiré cryptography

Yvo Desmedt, Tri van Le
November 2000 **Proceedings of the 7th ACM conference on Computer and communications security CCS '00**
Publisher: ACM Press
Full text available: pdf(5.86 MB)   Additional Information: full citation, references, index terms

     Keywords: information hiding, privacy and anonymity, steganography

18 Part I: submitted papers: An idiosyncratic systems approach to interactive graphics
Nicholas Negroponte
October 1976 **Proceedings of the ACM/SIGGRAPH workshop on User-oriented design of interactive graphics systems UODIGS '76**
Publisher: ACM Press
Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references

This paper applauds and emphasizes the Workshop's title, "User-Oriented Design of Interactive Graphics Systems," but bemoans and condemns its subtitle, "Application-Specific User Behavior and Cognition." The pros and the cons are an incomplete but cogent case for consideration of an *idiosyncratic systems* approach to interactive graphics systems.An idiosyncratic system is a personalized system. Personalization means both recognition of and response to the complete range of <u>an indi ...

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